

CLAIMS

What is claimed is:

1 1. A method for updating ACPI machine language (AML)
2 code, comprising:
3 searching for a pointer to a starting address of the AML
4 code;
5 providing appropriate update values for the AML code
6 corresponding to board capabilities; and
7 updating the AML code with said appropriate update
8 values.

1 2. The method of claim 1, wherein said pointer to a
2 starting address of the AML code is stored in a
3 Differentiated System Description Table.

1 3. The method of claim 2, further comprising:
2 updating size of the Differentiated System Description
3 Table.

1 4. The method of claim 3, further comprising:
2 re-computing a checksum for the entire Differentiated
3 System Description Table.

1 5. The method of claim 1, wherein said providing
2 appropriate update values includes receiving a board stock
3 keeping unit (SKU).

1 6. The method of claim 5, wherein said providing
2 appropriate update values further includes determining the
3 appropriate update values based on said board SKU.

1 7. The method of claim 1, wherein the board
2 capabilities include suspend state parameters.

1 8. A method for managing interfaces and power,
2 comprising:
3 searching for a pointer to a starting address of a power
4 management machine code;
5 providing appropriate update values for the power
6 management machine code corresponding to board capabilities;
7 updating the power management machine code with said
8 appropriate update values; and
9 enabling an operating system to manage power and
10 resources.

1 9. The method of claim 8, wherein said power
2 management machine code is an AML code.

1 10. The method of claim 9, wherein said pointer to a
2 starting address of the AML code is stored in a
3 Differentiated System Description Table.

1 11. The method of claim 8, wherein said enabling an
2 operating system includes reporting the board capabilities to
3 the operating system.

1 12. The method of claim 8, wherein said enabling an
2 operating system includes sending commands based on the power
3 management machine code.

1 13. The method of claim 12, further comprising:
2 passing control to the operating system.

1 14. A method for reporting and handling interfaces and
2 power, comprising:
3 searching for a pointer to a starting address of a power
4 handling and reporting machine code;
5 providing appropriate update values for the power
6 handling and reporting machine code corresponding to board
7 capabilities;
8 updating the power handling and reporting machine code
9 with said appropriate update values; and
10 enabling an operating system to manage power and
11 resources by reporting the board capabilities to the
12 operating system.

1 15. The method of claim 14, wherein said enabling an
2 operating system further includes sending commands based on
3 the power handling and reporting machine code.

1 16. The method of claim 14, wherein said power
2 management machine code is an AML code.

1 17. The method of claim 16, wherein said pointer to a
2 starting address of the AML code is stored in a
3 Differentiated System Description Table.

1 18. A method for updating ACPI machine language (AML)
2 code, comprising:
3 searching for a pointer to a starting address of the AML
4 code in an ACPI table;
5 providing appropriate update values for the AML code
6 corresponding to board capabilities;
7 updating the AML code with said appropriate update
8 values;
9 updating size of the ACPI table containing the pointer
10 to the starting address of the AML code; and
11 re-computing a checksum for the ACPI table.

1 19. The method of claim 18, wherein said pointer to a
2 starting address of the AML code is stored in a
3 Differentiated System Description Table.

1 20. The method of claim 18, wherein said ACPI table
2 includes a Differentiated System Description Table.

1 21. The method of claim 18, wherein said providing
2 appropriate update values includes receiving a board stock
3 keeping unit.

1 22. A computer readable medium containing executable
2 instructions which, when executed in a processing system,
3 causes the system to update ACPI machine language (AML) code,
4 comprising:

5 searching for a pointer to a starting address of the AML
6 code;

7 providing appropriate update values for the AML code
8 corresponding to board capabilities; and

9 updating the AML code with said appropriate update
10 values.

1 23. The computer readable medium of claim 22, wherein
2 said pointer to a starting address of the AML code is stored
3 in a Differentiated System Description Table.

1 24. The computer readable medium of claim 23, further
2 comprising:

3 updating size of the Differentiated System Description
4 Table.

1 25. The computer readable medium of claim 23, further
2 comprising:

3 re-computing a checksum for the entire Differentiated
4 System Description Table.

1 26. An Advanced Configuration Power Interface (ACPI)
2 system, comprising:
3 a pre-boot code to enable selection of ACPI capabilities
4 according to a board parameter that defines board
5 capabilities;
6 a table to store pointers to ACPI machine language code;
7 and
8 an ACPI machine language code update element to update
9 the ACPI machine language code corresponding to the board
10 capabilities.

1 27. The system of claim 26, wherein said board
2 parameter includes board's stock keeping unit.

1 28. The system of claim 26, wherein the table includes
2 Differentiated System Description Table.

1 29. A method for managing interfaces and power,
2 comprising:
3 searching for a pointer to device node structures;
4 providing appropriate update values for the device node
5 structures corresponding to board capabilities;
6 updating the device node structures with said
7 appropriate update values.

1 30. The method of claim 29, wherein said updating the
2 device node structures includes updating the device node
3 structures after reading General Purpose Input (GPI) values.

1 31. The method of claim 29, further comprising:
2 enabling an operating system to manage power and
3 resources.